

DERWENT-ACC-NO: 1983-847823
 DERWENT-WEEK: 198351
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{ TITLE: Recovery of ruthenium oxide coating from electrical device - by redn.
 to ruthenium, and treatment with alkaline soln. contg. chlorine or sodium
 chlorate

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 58194745 A	November 12, 1983	N/A	003	N/A
JP 91021490 B	March 22, 1991	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP91021490B	N/A	1982JP-0075653	May 6, 1982

INT-CL_(IPC): C01G055/00; C22B011/00 ; C22B061/00

ABSTRACTED-PUB-NO: JP58194745A

BASIC-ABSTRACT: Treatment is described of a corrosion-protected electric device coated with ruthenium oxide or a mixed crystal containing ruthenium oxide to recover the oxide.

The methd comprises reducing ruthenium oxide or a mixed crystal containing }
 ruthenium oxide deposited on the electric device to obtain metallic ruthenium, }
 treating the metallic ruthenium with an alkali solution contains Cl₂ or sodium
 chlorate to convert the metallic ruthenium to alkaline metal ruthenate M⁺ =
 monovalent alkali metal; M₂⁺= and dissolving out the ruthenate in the alkaline
 soln. to remove it from the device and recover ruthenium oxide as ruthenate.

{ In an example, ruthenium oxide deposited on an alumina body was reduced with H₂
 at 600 deg.C. to obtain metallic ruthenium. The reduced metallic ruthenium
 was immersed in a KOH soln. containing potassium chlorate, and dissolved out as
 potassium ruthenate in the soln.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS:

RECOVER RUTHENIUM OXIDE COATING ELECTRIC DEVICE REDUCE RUTHENIUM TREAT
 ALKALINE
 SOLUTION CONTAIN CHLORINE SODIUM CHLORATE

DERWENT-CLASS: M25

CPI-CODES: M25-E; M25-G28;

SECONDARY-ACC-NO:

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